Civil • Geotechnical •

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Kollaard File # 230403 Page 1

May 29, 2024

Engineers

P.O. Box 189

Sunbelt Rentals Inc. 2489 Sheffield Road Ottawa, Ontario K1B 3V6

Kollaard Associates

210 Prescott Street, Unit 1

Kemptville, Ontario K0G 1J0

RE: SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS PROPOSED COMMERCIAL DEVELOPMENT 151-159 WESCAR LANE CITY OF OTTAWA, ONTARIO

Dear Sirs:

At the request of the client, Kollaard Associates Inc. completed a groundwater monitoring program from a standpipe installed in a previous borehole put down at the site. The purpose of the groundwater monitoring program was to measure the water level from a standpipe installed in a previous borehole (BH9) as part of the geotechnical investigation to capture the "spring freshet".

A summary of the groundwater levels measured in the standpipe are as follows:

Date	Water Depth below g/s (metres)	Water Elevation below g/s (metres)	Ground Surface Elevation BH9
March 1, 2024	0.70	120.28	120.98m
April 1, 2024	0.87	120.11	
**May 1, 2024	Instrument error	-	
May 24, 2024	0.74	120.24	
May 27, 2024	0.78	120.20	

Groundwater Levels at BH9

NOTE: Instrument error occurred during May 1, 2024 site visit causing false reading.

Additional Augerholes

In addition to the groundwater monitoring program at borehole BH9, Kollaard Associates Inc. completed two site visits on May 24 and 27, 2024 at 151-159 Wescar Lane, Ottawa, Ontario. The purpose of the site visits was to put down a series of additional hand augerholes in the area of the proposed storm pond and nearby in order to verify recent groundwater levels obtained from the above noted standpipe. Two augerholes were put down on May 24, 2027 and four others were put down on May 27, 2024.

The location of the hand augerholes are shown on the attached Site Plan, Figure 2. The results of the subsurface conditions encountered in the augerholes are provided in the attached Table I,



(K)		Summary of Groundwater Level Measurements
		151-159 Wescar Lane
Sunbelt Rentals Inc.		Ottawa, ON
May 29, 2024	Page 2	230403

Record of Augerholes.

Subsurface Conditions

In general, the soil conditions encountered at the augerhole locations consisted of sandy fill materials overlying clayey fill materials followed by native silt. These conditions are similar to what was previously reported in the geotechnical report. A layer of coarse sand fill was encountered at augerholes AH3 and AH4.

The groundwater was measured in the augerholes as follows:

Augerhole	Date	Water Depth below g/s (metres)	Water Elevation below g/s (metres)	Ground Surface Elevation (metres)
AH1	May 24, 2024	0.72	120.25	120.97
AH1	May 27, 2024	0.74	120.23	120.97
AH2	May 24, 2024	N/A	No measurement	Refusal on Cobble
AH3	May 27, 2024	0.5	119.94	120.44
AH4	May 27, 2024	0.74	120.24	121.04
AH5	May 27, 2024	0.78	120.18	120.98
AH6	May 27, 2024	0.78	120.33	121.33

We trust that this report provides sufficient information for your present purposes. If you have any questions concerning this information or if we can be of further assistance to you, please do not hesitate to contact our office.

Yours truly,

Kollaard Associates Inc.

Dean Tataryn, B.E.S., EP.

Attachments: Table 1 – Record of Augerholes Site Plan, Figure 1 – Augerhole Locations



TABLE I

RECORD OF AUGERHOLES PROPOSED COMMERCIAL DEVELOPMENT 151-157 WESCAR LANE, CARP CITY OF OTTAWA, ONTARIO

TEST PIT NUMBER	DEPTH (METRES)	DESCRIPTION
AH1 (Elev. 120.97 m)	0.00 - 0.20	Red brown fine to medium sand (FILL)
May 24, 2024	0.20 - 0.60	Grey brown silty clay, trace sand (FILL)
	0.60 - 1.40	Grey brown fine to medium sand (FILL)
	1.40 – 1.50	Grey brown SILT
	1.50	End of auger hole in SILT

Some groundwater encountered at about 0.72 metres below the existing ground surface, May 24, 2024. Groundwater measured in auger hole at about 0.74 metres below the existing ground surface, May 27, 2024.

AH2 (Elev. 120.93 m) May 24, 2024	0.00 – 0.15	Red brown fine to medium sand (FILL)			
	0.15 – 0.60	Grey brown silty clay, trace sand (FILL)			
	0.60 - 0.80	Grey brown fine to medium sand (FILL)			
	0.80	Practical refusal on large cobble in FILL			
Auger hole dry, May 24, 2024.					
AH3 (Elev. 120.44 m) May 27, 2024	0.00 – 0.10	Topsoil (FILL)			
Way 27, 2024	0.10 – 0.50	Grey brown fine to medium sand (FILL)			
	0.50 - 0.60	Grey brown fine to coarse sand, trace gravel (Probably FILL)			
	0.60	End of auger hole in FILL			

Some groundwater encountered at about 0.5 metres below the existing ground surface, May 27, 2024.



May 27, 2024

TABLE I (Continued)

TEST PIT NUMBER	DEPTH (METRES)	DESCRIPTION							
AH4 (Elev. 121.04 m)	0.00 - 0.10	Topsoil (FILL)							
May 21, 2024	0.10 - 0.20	Red brown fine to medium sand (FILL)							
	0.20 - 0.80	Grey brown silty clay, trace sand (FILL)							
	0.80 - 0.90	Grey brown fine to coarse sand, trace gravel (Probably FILL)							
	0.90	End of test pit in FILL							
Some groundwater encountered at about 0.8 metres below the existing ground surface, May 27, 2024.									
AH5 (Elev. 120.98 m) May 27, 2024	0.00 - 0.20	Red brown fine to medium sand (FILL)							
	0.20 - 0.80	Grey brown silty clay, trace sand (FILL)							
	0.80 - 1.00	Grey brown fine to medium sand (FILL)							
	1.00	End of auger hole in FILL							
Some groundwater encountered	ed at about 0.8 metres	below the existing ground surface, May 27, 2024.							
AH6 (Elev. 121.33 m)	0.00 – 0.20	TOPSOII							
May 27, 2024	0.00 0.20								
	0.20 – 0.30	Red brown fine to medium SAND							
	0.30 – 1.20	Grey brown SILTY CLAY, trace sand							
	1.20 – 1.50	Grey fine to medium SAND, trace silt							
	0.80	End of auger hole in SAND							

Some groundwater encountered at about 1.0 metres below the existing ground surface, May 27, 2024.



KOLLAARD ASSOCIATES INCORPORATED		19m PI CHAN LINK FENCING	1.8m [F] CHAN LIN	4.0m x 10. CEOUMMENT	NOW STORAGE AREA 5.0		CAPE BUFFE 140.4 N46'41'20'E	G	PAR	1 7 1.8m PI CHAN LINK FENCING	5.0m L 4.5m INTERIO USINILIZZANION ZENION USINILIZZANION ZENION USINILIZZANION USINILIZANION USINILIZANION USINILIZANION USINI	ANDSCAP SUFFER OR SIDE YARD SETBACK 70.14 211.07 RG4 ZONING	50 PM 04536-0086(17)		
230403	KOLLAARD FILE NUMBER:	DRAWN BY: SCALE:	151–159 WESCAR LANE OTTAWA, ONTARIO	LOCATION:	PROJECT: AUGERHOLE LOCATIONS FOR GROUNDWATER LEVELS FOR PROPOSED COMMERCIAL DEVELOPMENT	CLIENT: SUNBELT RENTALS INC.	PO, BOX 189, 210 PRESCOTT ST (613) 860-0923 KEMPTVILLE ONTARIO KOG 1.10 FAX (613) 258-0475 info@kollaard.ca http://www.kollaard.ca	Kollaard Associates	REV. NAME DATE DESCRIPTION	SPECIAL NOTE: THIS DRAWNG TO BE READ IN CONJUNCTION WITH THE ACCOMPANYING REPORT.		REFERENCE: PLAN SUPPLIED BY SUNBELT RENTALS INC	APPROXIMATE AUGERHOLE LOCATION	LEGEND:	DRAWING NUMBER: SITE PLAN, FIGURE 1